## **British Corrosion Journal** Author index 1997

E. A. Abd El Meguid, V. K. Gouda, and N. A. Mahmoud Pitting corrosion behaviour of UNS N08904 stainless		A. Giroud see E. Aragon G. K. Glass and N. R. Buenfeld Theoretical basis for designing reinforced concrete	121, 263
steel in chloride-sulphide solutions S. Ahmad see M. A. Quraishi	68 297	cathodic protection systems V. K. Gouda see E. A. Abd El Meguid	179
M. Ajmal see M. A. Quraishi	72		
R. Akid see I. M. Dmytrakh	138	E. Heitz	
J. Alhajji		Corrosion problems in small and medium sized	20
Pitting corrosion of stainless steels in acidic	201	enterprise: a challenge for the corrosion community T. Hodgkiess see A. Neville	38 197, 277
G. C. Allen see C. M. Younes	291 185	1. Hodgkiess See A. Iveville	121, 411
N. P. Andreeva see Yu. I. Kuznetsov	209	S. Jihan see B. Knowlton	249
M. Q. Ansari see M. A. Quraishi	297	A. M. Jones see M. I. E. Coward	223
E. Aragon, L. Cazenave-Vergez, E. Lanza, A. Giroud,		D. I. Vashan	
and A. Sebaoun  Electrochemical behaviour of binary Al-Ga and ter-		<ul> <li>D. J. Keehan</li> <li>New generation of polymer lining systems for cargo tanks</li> </ul>	174
nary Al-Zn-Ga alloys as function of thermo-	121	B. Kinsella see S. Bailey	49
dynamic properties	121	see Y. J. Tan	212
E. Aragon, L. Cazenave-Vergez, E. Lanza, A. Giroud, and A. Sebaoun		B. Knowlton, A. M. Siddiqui, and S. Jihan	
Influence of alloying elements on electrochemical		Stress corrosion monitoring of 7000 series aluminium alloy welded specimens using acoustic emission	249
behaviour of ternary Al-Zn-Ga alloys for sacrificial	2/2	Yu. I. Kuznetsov, N. P. Andreeva, S. S. Veselyi, and	247
anodes	263	S. V. Oleinik	
S. Bailey, Y. J. Tan, and B. Kinsella		Adsorption of sodium N-phenylanthranilate on iron	
Use of electrochemical impedance spectroscopy for study of CO <sub>2</sub> corrosion prevention by batch treatment		surfaces from aqueous solutions	209
inhibitor films	49	E. Lanza see E. Aragon	121, 263
S. Bailey see Y. J. Tan	212	H. Lin see T. Du	301
M. Balbaşi see M. Ergun	117	NI A Malana I E A ALIELMANIA	60
B. D. Barker see M. I. E. Coward	223	N. A. Mahmoud see E. A. Abd El Meguid	68
A. M. Beccaria see P. Traverso P. L. Bonora see F. Deflorian	255 145	H. Malik Influence of quarternary amine alkyl chain length on	
N. R. Buenfeld see G. K. Glass	179	corrosion inhibition of mild steel in CO <sub>2</sub> saturated 5%	
		NaCl solution at pH 6.5	150
Ch. Cao see T. Du	301 121, 263	P. McIntyre see C. M. Younes	185
L. Cazenave-Vergez see E. Aragon	121, 203	K. J. Miller see I. M. Dmytrakh	138
Yufeng Cheng and Yuanlong Du  Development of electrochemical probe for monitoring		G. A. Mills see M. I. E. Coward	223
hydrogen induced cracking susceptibility of boiler pipe		A. P. Morizot see A. Neville	277
in pickling	206	F. H. Morrissey see C. M. Younes S. Muralidharan see M. A. Quraishi	185 72
A. Cigada see G. Rondelli	193	K. S. N. Murthy, S. Subramanian, and E. S.	12
M. I. E. Coward, B. D. Barker, G. A. Mills, and		Dwarakadasa	
A. M. Jones		Corrosion behaviour of 8090-T851 Al-Li alloy and	
Investigation into tarnishing of pewter artefacts re-	223	aluminium in pH 2 solution containing cupric ions	63
covered from the 'Mary Rose'	223	C. M. Mustafa and S. M. Shahinoor Islam Dulal	
F. Deflorian, L. Fedrizzi, and P. L. Bonora		Corrosion behaviour of mild steel in moderately	
Influence of water uptake on corrosion protection	145	alkaline to acidic simulated cooling water containing molybdate and nitrite	133
properties of fluoropolymer coatings  I. M. Dmytrakh, R. Akid, and K. J. Miller	173	moryodate and marte	100
Electrochemistry of deformed smooth surfaces and		S. Nesic, G. T. Solvi, and S. Skjerve	
short corrosion fatigue crack growth behaviour	138	Comparison of rotating cylinder and loop methods	
T. Du, Ch. Cao, J. Yu, and H. Lin		for testing CO <sub>2</sub> corrosion inhibitors	269
Effects of dodecylamines on electrochemical		A. Neville and T. Hodgkiess	
impedance spectra of iron at corrosion potential in		Study of effect of liquid corrosivity in liquid-solid impingement on cast iron and austenitic stainless steel	197
sulphuric solutions with and without addition of	301	A. Neville, T. Hodgkiess, and A. P. Morizot	177
Yuanlong Du see Yufeng Cheng	301 206	Surface scales in sea water systems: effects of their	
E. S. Dwarakadasa see K. S. N. Murthy	63	formation on corrosion behaviour of engineering	
	77	steels	277
M. El Agaili see F. Elshawesh F. Elshawesh, M. El Agaili, and A. Elwaer	7.7	C V OLGEN V I V	200
Atmospheric corrosion of aluminium conductor	77	S. V. Oleinik see Yu. I. Kuznetsov	209
A. Elwaer see F. Elshawesh	77	M. A. Quraishi, M. A. Wajid Khan, M. Ajmal,	
A. A. El Warraky		S. Muralidharan, and S. Venkatakrishna Iyer	
Early stages of dezincification of $\alpha$ brass immersed in		Influence of molecular structure of substituted benzo-	
4%NaCl solution	57	thiazoles on corrosion inhibition and hydrogen per-	
M. Ergun, M. Balbaşi, and A. Tosun Correlation model of aluminium pitting potential vari-		meation through mild steel in sulphuric acid	72
ation with environmental conditions	117	M. A. Quraishi, S. Ahmad, and M. Q. Ansari Inhibition of steel corrosion by some new triazole	
L. Fedrizzi see F. Deflorian	145	derivatives in boiling hydrochloric acid	297
	143		
S. A. Garrett, D. A. Rice, J. R. Rogers, and		D. A. Rice see S. A. Garrett	217
C. J. E. Smith Tetrathiotungstate and tetrathiomolybdate com-		J. R. Rogers see S. A. Garrett G. Rondelli, B. Vicentini, and A. Cigada	217
pounds as corrosion inhibitors for protection of		Localised corrosion tests on austenitic stainless steels	
Al-Cu alloy	217	for biomedical applications	193

## **British Corrosion Journal** Author index 1997

E. A. Abd El Meguid, V. K. Gouda, and N. A. Mahmoud Pitting corrosion behaviour of UNS N08904 stainless		A. Giroud see E. Aragon G. K. Glass and N. R. Buenfeld Theoretical basis for designing reinforced concrete	121, 263
steel in chloride-sulphide solutions S. Ahmad see M. A. Quraishi	68 297	cathodic protection systems V. K. Gouda see E. A. Abd El Meguid	179
M. Ajmal see M. A. Quraishi	72		
R. Akid see I. M. Dmytrakh	138	E. Heitz	
J. Alhajji		Corrosion problems in small and medium sized	20
Pitting corrosion of stainless steels in acidic	201	enterprise: a challenge for the corrosion community T. Hodgkiess see A. Neville	38 197, 277
G. C. Allen see C. M. Younes	291 185	1. Hodgkiess See A. Iveville	121, 411
N. P. Andreeva see Yu. I. Kuznetsov	209	S. Jihan see B. Knowlton	249
M. Q. Ansari see M. A. Quraishi	297	A. M. Jones see M. I. E. Coward	223
E. Aragon, L. Cazenave-Vergez, E. Lanza, A. Giroud,		D. I. Vashan	
and A. Sebaoun  Electrochemical behaviour of binary Al-Ga and ter-		<ul> <li>D. J. Keehan</li> <li>New generation of polymer lining systems for cargo tanks</li> </ul>	174
nary Al-Zn-Ga alloys as function of thermo-	121	B. Kinsella see S. Bailey	49
dynamic properties	121	see Y. J. Tan	212
E. Aragon, L. Cazenave-Vergez, E. Lanza, A. Giroud, and A. Sebaoun		B. Knowlton, A. M. Siddiqui, and S. Jihan	
Influence of alloying elements on electrochemical		Stress corrosion monitoring of 7000 series aluminium alloy welded specimens using acoustic emission	249
behaviour of ternary Al-Zn-Ga alloys for sacrificial	2/2	Yu. I. Kuznetsov, N. P. Andreeva, S. S. Veselyi, and	247
anodes	263	S. V. Oleinik	
S. Bailey, Y. J. Tan, and B. Kinsella		Adsorption of sodium N-phenylanthranilate on iron	
Use of electrochemical impedance spectroscopy for study of CO <sub>2</sub> corrosion prevention by batch treatment		surfaces from aqueous solutions	209
inhibitor films	49	E. Lanza see E. Aragon	121, 263
S. Bailey see Y. J. Tan	212	H. Lin see T. Du	301
M. Balbaşi see M. Ergun	117	NI A Malana I E A ALIELMANIA	60
B. D. Barker see M. I. E. Coward	223	N. A. Mahmoud see E. A. Abd El Meguid	68
A. M. Beccaria see P. Traverso P. L. Bonora see F. Deflorian	255 145	H. Malik Influence of quarternary amine alkyl chain length on	
N. R. Buenfeld see G. K. Glass	179	corrosion inhibition of mild steel in CO <sub>2</sub> saturated 5%	
		NaCl solution at pH 6.5	150
Ch. Cao see T. Du	301 121, 263	P. McIntyre see C. M. Younes	185
L. Cazenave-Vergez see E. Aragon	121, 203	K. J. Miller see I. M. Dmytrakh	138
Yufeng Cheng and Yuanlong Du  Development of electrochemical probe for monitoring		G. A. Mills see M. I. E. Coward	223
hydrogen induced cracking susceptibility of boiler pipe		A. P. Morizot see A. Neville	277
in pickling	206	F. H. Morrissey see C. M. Younes S. Muralidharan see M. A. Quraishi	185 72
A. Cigada see G. Rondelli	193	K. S. N. Murthy, S. Subramanian, and E. S.	12
M. I. E. Coward, B. D. Barker, G. A. Mills, and		Dwarakadasa	
A. M. Jones		Corrosion behaviour of 8090-T851 Al-Li alloy and	
Investigation into tarnishing of pewter artefacts re-	223	aluminium in pH 2 solution containing cupric ions	63
covered from the 'Mary Rose'	223	C. M. Mustafa and S. M. Shahinoor Islam Dulal	
F. Deflorian, L. Fedrizzi, and P. L. Bonora		Corrosion behaviour of mild steel in moderately	
Influence of water uptake on corrosion protection	145	alkaline to acidic simulated cooling water containing molybdate and nitrite	133
properties of fluoropolymer coatings  I. M. Dmytrakh, R. Akid, and K. J. Miller	173	moryodate and marte	100
Electrochemistry of deformed smooth surfaces and		S. Nesic, G. T. Solvi, and S. Skjerve	
short corrosion fatigue crack growth behaviour	138	Comparison of rotating cylinder and loop methods	
T. Du, Ch. Cao, J. Yu, and H. Lin		for testing CO <sub>2</sub> corrosion inhibitors	269
Effects of dodecylamines on electrochemical		A. Neville and T. Hodgkiess	
impedance spectra of iron at corrosion potential in		Study of effect of liquid corrosivity in liquid-solid impingement on cast iron and austenitic stainless steel	197
sulphuric solutions with and without addition of	301	A. Neville, T. Hodgkiess, and A. P. Morizot	177
Yuanlong Du see Yufeng Cheng	301 206	Surface scales in sea water systems: effects of their	
E. S. Dwarakadasa see K. S. N. Murthy	63	formation on corrosion behaviour of engineering	
	77	steels	277
M. El Agaili see F. Elshawesh F. Elshawesh, M. El Agaili, and A. Elwaer	7.7	C V OLGEN V I V	200
Atmospheric corrosion of aluminium conductor	77	S. V. Oleinik see Yu. I. Kuznetsov	209
A. Elwaer see F. Elshawesh	77	M. A. Quraishi, M. A. Wajid Khan, M. Ajmal,	
A. A. El Warraky		S. Muralidharan, and S. Venkatakrishna Iyer	
Early stages of dezincification of $\alpha$ brass immersed in		Influence of molecular structure of substituted benzo-	
4%NaCl solution	57	thiazoles on corrosion inhibition and hydrogen per-	
M. Ergun, M. Balbaşi, and A. Tosun Correlation model of aluminium pitting potential vari-		meation through mild steel in sulphuric acid	72
ation with environmental conditions	117	M. A. Quraishi, S. Ahmad, and M. Q. Ansari Inhibition of steel corrosion by some new triazole	
L. Fedrizzi see F. Deflorian	145	derivatives in boiling hydrochloric acid	297
	143		
S. A. Garrett, D. A. Rice, J. R. Rogers, and		D. A. Rice see S. A. Garrett	217
C. J. E. Smith Tetrathiotungstate and tetrathiomolybdate com-		J. R. Rogers see S. A. Garrett G. Rondelli, B. Vicentini, and A. Cigada	217
pounds as corrosion inhibitors for protection of		Localised corrosion tests on austenitic stainless steels	
Al-Cu alloy	217	for biomedical applications	193

A. Sebaoun see E. Aragon S. M. Shahinoor Islam Dulal see C. M. Mustafa A. M. Siddiqui see B. Knowlton	121, 263 133 249	A. Turnbull     Implications of internal cathodic reactions for crevice attack of stainless steels in chloride environments	283
S. Skjerve see S. Nesic C. J. E. Smith see S. A. Garrett G. T. Solvi see S. Nesic	269 217 269	S. Venkatakrishna Iyer see M. A. Quraishi S. S. Veselyi see Yu. I. Kuznetsov B. Vicentini see G. Rondelli	72 209 193
S. Subramanian see K. S. N. Murthy	63	M. A. Wajid Khan see M. A. Quraishi	72
Y. J. Tan see S. Bailey	49	C. M. Younes, F. H. Morrissey, G. C. Allen, and	7.42
<ul> <li>Y. J. Tan, B. Kinsella, and S. Bailey         Monitoring batch treatment inhibitor performance continuously using electrochemical noise analysis     </li> <li>J. Toribio</li> </ul>	212	P. McIntyre Effect of heat treatment on grain boundary chemistry and resistance to intergranular corrosion of alloys 600 and 690	185
Local strain rate at crack tip: implications in stress corrosion cracking	41	J. Yu see T. Du	301
A. Tosun see M. Ergun P. Traverso and A. M. Beccaria	117	Y. S. Zhang see X. M. Zhu X. M. Zhu and Y. S. Zhang	127
Pit formation and growth in sea water on Al-Li 8090 alloy after different heat treatments	255	Electrochemical polarisation and passive film of austenitic Fe-Mn-Cr-Al alloy in aqueous solution	127
British Corrosion Journal	Subi	ect index 1997	
Distriction Controlled Contribution	Subj	oct mack 1997	
Acoustic emission Stress corrosion monitoring of 7000 series aluminium alloy welded specimens using acoustic emission		Aluminium conductor Atmospheric corrosion of aluminium conductor Elshawesh et al.	77
Knowlton et al. Adhesion	249	Aluminium pitting potential  Correlation model of aluminium pitting potential	117
Influence of water uptake on corrosion protection properties of fluoropolymer coatings Deflorian et al.	145	variation with environmental conditions Ergun et al.  Al-Zn-Ga alloys Electrochemical behaviour of binary Al-Ga and ter-	117
Adsorption Adsorption of sodium N-phenylanthranilate on iron surfaces from aqueous solutions Kuznetsov et al.	209	nary Al-Zn-Ga alloys as function of thermodynamic properties Aragon et al.	121
Al-Cu alloys Tetrathiotungstate and tetrathiomolybdate compounds as corrosion inhibitors for protection of		Influence of alloying elements on electrochemical behaviour of ternary Al-Zn-Ga alloys for sacrificial anodes Aragon et al.	263
Al-Cu alloy Garrett et al.  Alkyl chain length	217	Anodic dissolution  Electrochemistry of deformed smooth surfaces and short corrosion fatigue crack growth behaviour	
Influence of quarternary amine alkyl chain length on corrosion inhibition of mild steel in $CO_2$ saturated 5% NaCl solution at pH 6·5 Malik	150	Dmytrakh et al.  Atmospheric corrosion Atmospheric corrosion of aluminium conductor	138
Al-Li alloys Corrosion behaviour of 8090-T851 Al-Li alloy and		Elshawesh <i>et al.</i> Auger electron spectroscopy	77
aluminium in pH 2 solution containing cupric ions Murthy et al.  Pit formation and growth in sea water on Al-Li 8090 alloy after different heat treatments Traverso and	63	Early stages of dezincification of α brass immersed in 4%NaCl solution El Warraky Influence of molecular structure of substituted benzo- thiazoles on corrosion inhibition and hydrogen	57
Beccaria Alloy 600	255	permeation through mild steel in sulphuric acid Quraishi et al.	72
Effect of heat treatment on grain boundary chemistry and resistance to intergranular corrosion of alloys 600 and 690 Younes et al.	185	Biomaterials  Localised corrosion tests on austenitic stainless steels for biomedical applications Rondelli <i>et al.</i>	193
Alloy 690 Effect of heat treatment on grain boundary chemistry and resistance to intergranular corrosion of alloys		Boiler pipe  Development of electrochemical probe for monitoring hydrogen induced cracking susceptibility of boiler pipe in pickling Yufeng Cheng and Yuanlong Du	206
600 and 690 Younes et al.  Alloying Influence of alloying elements on electrochemical	185	α brass Early stages of dezincification of α brass immersed in 4%NaCl solution El Warraky	57
Influence of alloying elements on electrochemical behaviour of ternary Al–Zn–Ga alloys for sacrificial anodes Aragon <i>et al</i> .		Carbides Effect of heat treatment on grain boundary chemistry	VI.
Aluminium alloys Corrosion behaviour of 8090-T851 Al-Li alloy and aluminium in pH 2 solution containing cupric		and resistance to intergranular corrosion of alloys 600 and 690 Younes <i>et al.</i> Cathodic protection	185
ions Murthy et al.  Stress corrosion monitoring of 7000 series aluminium	63	Influence of alloying elements on electrochemical behaviour of ternary Al–Zn–Ga alloys for sacrificial anodes Aragon et al.	263
alloy welded specimens using acoustic emission Knowlton et al.	249	Theoretical basis for designing reinforced concrete cathodic protection systems Glass and Buenfeld	179

Chloride extraction		Tan et al.	212
Theoretical basis for designing reinforced concrete cathodic protection systems Glass and Buenfeld	179	Electrochemical polarisation Electrochemical polarisation and passive film of aus-	
Cooling water Corrosion behaviour of mild steel in moderately alka- line to acidic simulated cooling water containing		tenitic Fe-Mn-Cr-Al alloy in aqueous solution Zhu and Zhang	127
molybdate and nitrite Mustafa and Shahinoor Islam Dulal	133	Electrochemical probe Development of electrochemical probe for monitoring hydrogen induced cracking susceptibility of boiler pipe in pickling Yufeng Cheng and Yuanlong Du	206
Influence of quarternary amine alkyl chain length on corrosion inhibition of mild steel in CO <sub>2</sub> saturated 5% NaCl solution at pH 6·5 Malik	150	Ellipsometry  Adsorption of sodium N-phenylanthranilate on iron surfaces from aqueous solutions Kuznetsov et al.	209
CO <sub>2</sub> corrosion Use of electrochemical impedance spectroscopy for		Environments Chlorides	207
study of CO <sub>2</sub> corrosion prevention by batch treatment inhibitor films Bailey et al. Monitoring batch treatment inhibitor performance continuously using electrochemical noise analysis	49	Early stages of dezincification of α brass immersed in 4%NaCl solution El Warraky Corrosion behaviour of 8090-T851 Al-Li alloy and	57
Tan et al.  Comparison of rotating cylinder and loop methods for testing CO <sub>2</sub> corrosion inhibitors Nesic et al.	212 269	aluminium in pH 2 solution containing cupric ions Murthy et al.  Implications of internal cathodic reactions for crevice attack of stainless steels in chloride environments	63
Correlation models  Correlation model of aluminium pitting potential variation with environmental conditions  Ergun et al.	117	Turnbull Pitting corrosion of stainless steel in acidic environment ment Alhajii	283 291
Corrosion fatigue Electrochemistry of deformed smooth surfaces and short corrosion fatigue crack growth behaviour	117	Effects of dodecylamines on electrochemical impedance spectra of iron at corrosion potential in sulphuric solutions with and without addition of	
Dmytrakh et al.  Cracked specimens	138	chloride Du et al.  Chloride-sulphide  Pitting corrosion behaviour of UNS N08904 stainless	301
Local strain rate at crack tip: implications in stress corrosion cracking Toribio	41	steel in chloride-sulphide solutions Abd El Meguid et al.	68
Crevice corrosion Implications of internal cathodic reactions for crevice attack of stainless steels in chloride environments Turnbull	283	Hydrochloric acid Inhibition of steel corrosion by some new triazole derivatives in boiling hydrochloric acid Quraishi et al. Molybdates	297
Cupric ion effect Corrosion behaviour of 8090-T851 Al-Li alloy and aluminium in pH 2 solution containing cupric ions Murthy et al.	63	Corrosion behaviour of mild steel in moderately alka- line to acidic simulated cooling water containing mol- ybdate and nitrite Mustafa and Shahinoor Islam Dulal Nitrites	133
Dezincification Early stages of dezincification of α brass immersed in 4%NaCl solution El Warraky	57	Corrosion behaviour of mild steel in moderately alka- line to acidic simulated cooling water containing mol- ybdate and nitrite Mustafa and Shahinoor Islam Dulal	133
Disproportionation Early stages of dezincification of α brass immersed in 4%NaCl solution El Warraky	57	Sea water Pit formation and growth in sea water on Al-Li 8090 alloy after different heat treatments Traverso and	8 11/10/10
Dodecylamines Effects of dodecylamines on electrochemical		Beccaria  Sulphuric acid  Effects of dodecylamines on electrochemical	255
impedance spectra of iron at corrosion potential in sulphuric solutions with and without addition of chloride Du <i>et al.</i>	301	impedance spectra of iron at corrosion potential in sulphuric solutions with and without addition of chloride Du et al.	301
Electrochemical behaviour Study of effect of liquid corrosivity in liquid-solid impingement on cast iron and austenitic stainless steel Neville and Hodgkiess Surface scales in sea water systems: effects of their	197	Erosion-corrosion Study of effect of liquid corrosivity in liquid-solid impingement on cast iron and austenitic stainless steel Neville and Hodgkiess	197
formation on corrosion behaviour of engineering steels Neville <i>et al</i> .  Electrochemical impedance spectroscopy	277	Fe-Mn-Cr-Al alloys Electrochemical polarisation and passive film of austenitic Fe-Mn-Cr-Al alloy in aqueous solution Zhu	
Use of electrochemical impedance spectroscopy for study of CO <sub>2</sub> corrosion prevention by batch treatment inhibitor films Bailey et al.	49	and Zhang  Fluoropolymer coatings  Influence of water uptake on corrosion protection	127
Influence of water uptake on corrosion protection properties of fluoropolymer coatings Deflorian et al.	145	properties of fluoropolymer coatings Deflorian et al.  Galvanic corrosion	145
Pit formation and growth in sea water on Al-Li 8090 alloy after different heat treatments Traverso and Beccaria	255	Atmospheric corrosion of aluminium conductor Elshawesh et al.	77
Effects of dodecylamines on electrochemical impedance spectra of iron at corrosion potential in sulphuric solutions with and without addition of		Global strain rate Local strain rate at crack tip: implications in stress corrosion cracking Toribio	41
chloride Du et al.  Electrochemical noise analysis  Monitoring batch treatment inhibitor performance continuously using electrochemical noise analysis	301	Grain boundaries  Effect of heat treatment on grain boundary chemistry and resistance to intergranular corrosion of alloys 600 and 690 Younes et al.	185
and and another moise dilarysis		WING V/V LOWING UT WIT	10.

Heat treatment Electrochemical behaviour of binary Al-Ga and ter-		'Mary Rose' Investigation into tarnishing of pewter artefacts reco-	
nary Al-Zn-Ga alloys as function of thermodynamic properties Aragon <i>et al.</i>	121	vered from the 'Mary Rose' Coward et al.  Mineral scaling	223
Hydrogen embrittlement Effect of heat treatment on grain boundary chemistry and resistance to intergranular corrosion of alloys		Surface scales in sea water systems: effects of their formation on corrosion behaviour of engineering steels Neville et al.	277
600 and 690 Younes et al.	185	Modelling	
Hydrogen induced cracking Development of electrochemical probe for monitoring hydrogen induced cracking susceptibility of boiler pipe in pickling Yufeng Cheng and Yuanlong Du	206	Electrochemistry of deformed smooth surfaces and short corrosion fatigue crack growth behaviour Dmytrakh et al.  Implications of internal cathodic reactions for crevice attack of stainless steels in chloride environments	138
Hydrogen permeation Influence of molecular structure of substituted benzothiazoles on corrosion inhibition and hydrogen permeation through mild steel in sulphuric acid Quraishi et al.	72	Turnbull  Non-destructive testing  Stress corrosion monitoring of 7000 series aluminium alloy welded specimens using acoustic emission Knowlton et al.	283
Impedance Adsorption of sodium <i>N</i> -phenylanthranilate on iron surfaces from aqueous solutions Kuznetsov <i>et al.</i>	209	Passivation Electrochemical behaviour of binary Al–Ga and ter-	249
Inhibitor efficiency Influence of quarternary amine alkyl chain length on corrosion inhibition of mild steel in CO <sub>2</sub> saturated 5% NaCl solution at pH 6·5 Malik	150	nary Al-Zn-Ga alloys as function of thermodynamic properties Aragon et al. Influence of alloying elements on electrochemical behaviour of ternary Al-Zn-Ga alloys for sacrificial anodes Aragon et al.	121 263
Inhibitor film persistency Use of electrochemical impedance spectroscopy for study of CO <sub>2</sub> corrosion prevention by batch treatment inhibitor films Bailey et al.	49	Passive films Electrochemical polarisation and passive film of austenitic Fe-Mn-Cr-Al alloy in aqueous solution Zhu and Zhang	127
Inhibitors and inhibition	42	Pewter	1,21
Use of electrochemical impedance spectroscopy for study of CO <sub>2</sub> corrosion prevention by batch treatment inhibitor films Bailey <i>et al.</i>	49	Investigation into tarnishing of pewter artefacts recovered from the 'Mary Rose' Coward et al.	223
Influence of molecular structure of substituted benzo- thiazoles on corrosion inhibition and hydrogen permeation through mild steel in sulphuric acid Quraishi et al.	72	Phase diagrams Electrochemical behaviour of binary Al–Ga and ternary Al–Zn–Ga alloys as function of thermodynamic properties Aragon et al.	121
Corrosion behaviour of mild steel in moderately alka- line to acidic simulated cooling water containing mol-	12	Pickling	
ybdate and nitrite Mustafa and Shahinoor Islam Dulal Monitoring batch treatment inhibitor performance	133	Development of electrochemical probe for monitoring hydrogen induced cracking susceptibility of boiler pipe in pickling Yufeng Cheng and Yuanlong Du	206
continuously using electrochemical noise analysis Tan et al. Tetrathiotungstate and tetrathiomolybdate com-	212	Pitting Pitting corrosion behaviour of UNS N08904 stainless steel in chloride-sulphide solutions Abd El Meguid	
pounds as corrosion inhibitors for protection of Al-Cu alloy Garrett et al.	217	et al. Atmospheric corrosion of aluminium conductor	68
Comparison of rotating cylinder and loop methods for testing CO <sub>2</sub> corrosion inhibitors Nesic <i>et al</i> . Inhibition of steel corrosion by some new triazole	269	Elshawesh et al. Pit formation and growth in sea water on Al-Li 8090	77
derivatives in boiling hydrochloric acid Quraishi et al.	297	alloy after different heat treatments Traverso and Beccaria Pitting corrosion of stainless steel in acidic environ-	255
Integrated corrosion protection system  Corrosion problems in small and medium sized		ment Alhajji	291
enterprises: a challenge for the corrosion community Heitz Intergranular corrosion	38	Polarisation resistance Influence of quarternary amine alkyl chain length on corrosion inhibition of mild steel in CO <sub>2</sub> saturated 5%	1.50
Effect of heat treatment on grain boundary chemistry and resistance to intergranular corrosion of alloys 600 and 690. Younes et al.	185	NaCl solution at pH 6·5 Malik  Pollutant gases Investigation into tarnishing of pewter artefacts reco-	150
Iron		vered from the 'Mary Rose' Coward et al.	223
Adsorption of sodium N-phenylanthranilate on iron surfaces from aqueous solutions Kuznetsov et al. Effects of dodecylamines on electrochemical impedance spectra of iron at corrosion potential in	209	Pollution Atmospheric corrosion of aluminium conductor Elshawesh et al.	77
sulphuric solutions with and without addition of chloride Du et al.	301	Potentiodynamic polarisation Influence of molecular structure of substituted benzo- thiazoles on corrosion inhibition and hydrogen per-	
Local strain rate at crack tip: implications in stress	41	meation through mild steel in sulphuric acid Quraishi et al.	72
Corrosion cracking Toribio  Localised corrosion  Localised corrosion tests on outcomitie stainless stacks	41	Quarternary amines Influence of quarternary amine alkyl chain length on	
Localised corrosion tests on austenitic stainless steels for biomedical applications Rondelli <i>et al.</i>	193	corrosion inhibition of mild steel in CO <sub>2</sub> saturated 5% NaCl solution at pH 6·5 Malik	150

Reinforced concrete Theoretical basis for designing reinforced concrete	170	Pitting corrosion of stainless steels in acidic environment Alhajji	291
cathodic protection systems Glass and Buenfeld Sacrificial anodes Influence of alloying elements on electrochemical behaviour of ternary Al–Zn–Ga alloys for sacrificial anodes Aragon et al.	263	Stress corrosion Local strain rate at crack tip: implications in stress corrosion cracking Toribio Stress corrosion monitoring of 7000 series aluminium alloy welded specimens using acoustic emission	41
Short cracks Electrochemistry of deformed smooth surfaces and short corrosion fatigue crack growth behaviour Dmytrakh et al.	138	Knowlton <i>et al.</i> Substituted benzothiazoles Influence of molecular structure of substituted benzothiazoles on corrosion inhibition and hydrogen	249
Simultaneous dissolution Early stages of dezincification of α brass immersed in 4%NaCl solution El Warraky	57	permeation through mild steel in sulphuric acid Quraishi et al.	72
Slurry Study of effect of liquid corrosivity in liquid-solid impingement on cast iron and austenitic stainless steel		Tarnishing Investigation into tarnishing of pewter artefacts recovered from the 'Mary Rose' Coward et al.	223
Neville and Hodgkiess  Small and medium sized enterprises  Corrosion problems in small and medium sized	197	Ternary alloys Influence of alloying elements on electrochemical behaviour of ternary Al-Zn-Ga alloys for sacrificial anodes Aragon et al.	263
enterprises: a challenge for the corrosion community Heitz  Sodium N-phenylanthranilate  Adsorption of sodium N-phenylanthranilate on iron surfaces from aqueous solutions Kuznetsov et al.	38	Tetrathiomolybdate compounds Tetrathiotungstate and tetrathiomolybdate compounds as corrosion inhibitors for protection of Al-Cu alloy Garrett et al.	217
Steels Galvanised steel Atmospheric corrosion of aluminium conductor Elshawesh et al.	77	Tetrathiotungstate compounds Tetrathiotungstate and tetrathiomolybdate compounds as corrosion inhibitors for protection of Al-Cu alloy Garrett et al.	217
Mild steel Corrosion behaviour of mild steel in moderately alkaline to acidic simulated cooling water containing molybdate and nitrite Mustafa and Shahinoor Islam Dulal Stainless steels Pitting corrosion behaviour of UNS N08904 stainless		Triazole derivatives Inhibition of steel corrosion by some new triazole derivatives in boiling hydrochloric acid Quraishi et al.	297
	133	Water uptake Influence of water uptake on corrosion protection properties of fluoropolymer coatings Deflorian et al.	145
steel in chloride-sulphide solutions Abd El Meguid et al.  Localised corrosion tests on austenitic stainless steels  For biomedical applications. Bondalli stail.	68	X-ray photoelectron spectroscopy Early stages of dezincification of α brass immersed in	57
for biomedical applications Rondelli <i>et al.</i> Implications of internal cathodic reactions for crevice attack of stainless steels in chloride environments Turnbull	193 283	4%NaCl solution El Warraky Pit formation and growth in sea water on Al-Li 8090 alloy after different heat treatments Traverso and Beccaria	255

